

New York State Department of Transportation

Yellow Flag NB22CTW015

By: Rehan Afridi

Flag Date: April 13, 2022

Superseding Information:

This flag supersedes: YF NB2158W008

Structure Information

BIN: 1065318

Feature Carried: 278I278IX2M23027

Feature Crossed: 6TH AVENUE

Orientation: 8 - NORTHWEST

Region: 11 - NEW YORK CITY

County: KINGS

Political Unit: City of NEW YORK

Approximate Year Built: 1962

Posted Load Matches Inventory : Yes

Bridge Load Posting (Tons) : Not Posted for Load

Primary Owner: New York State Department of Transportation

Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party

Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

Number of Spans: 322

Verbal Notification Information

Person Notified: Heinz Joachim, P.E.

Date: April 13, 2022 10:00:00 AM

Of: NYSDOT Region 11

Signature Information

Signature: Rehan Afridi, P.E. 075185

Date: April 28, 2022

Reviewed By: Robert Kemp

Date: April 28, 2022

Attachments: 5

Flagged Elements

Parent Element	Element	Total Quantity	Unit
Span Number : 177			
	107 - Steel Open Girder/Beam	917	ft
	PR831 - Steel Beam End	40	each

Flagged Condition Description

This Yellow Flag No. NB22CTW015 supersedes previously issued Yellow Flag No. NB2158W008.

Location: Span 177 G18 at Pier 176

Description: The right connection angle at Girder G18 in Span 177 at Pier 176 exhibits a 9" long (no change since previous inspection) vertical crack along the fillet stemming from the 3"H x 2"L (previously 2"H x 1"L) and a 2"H x 3/4"L (not previously noted) corrosion holes at the bottom of the angle. The girder is framed into the web of the pier with connection angles at both sides of the girder.

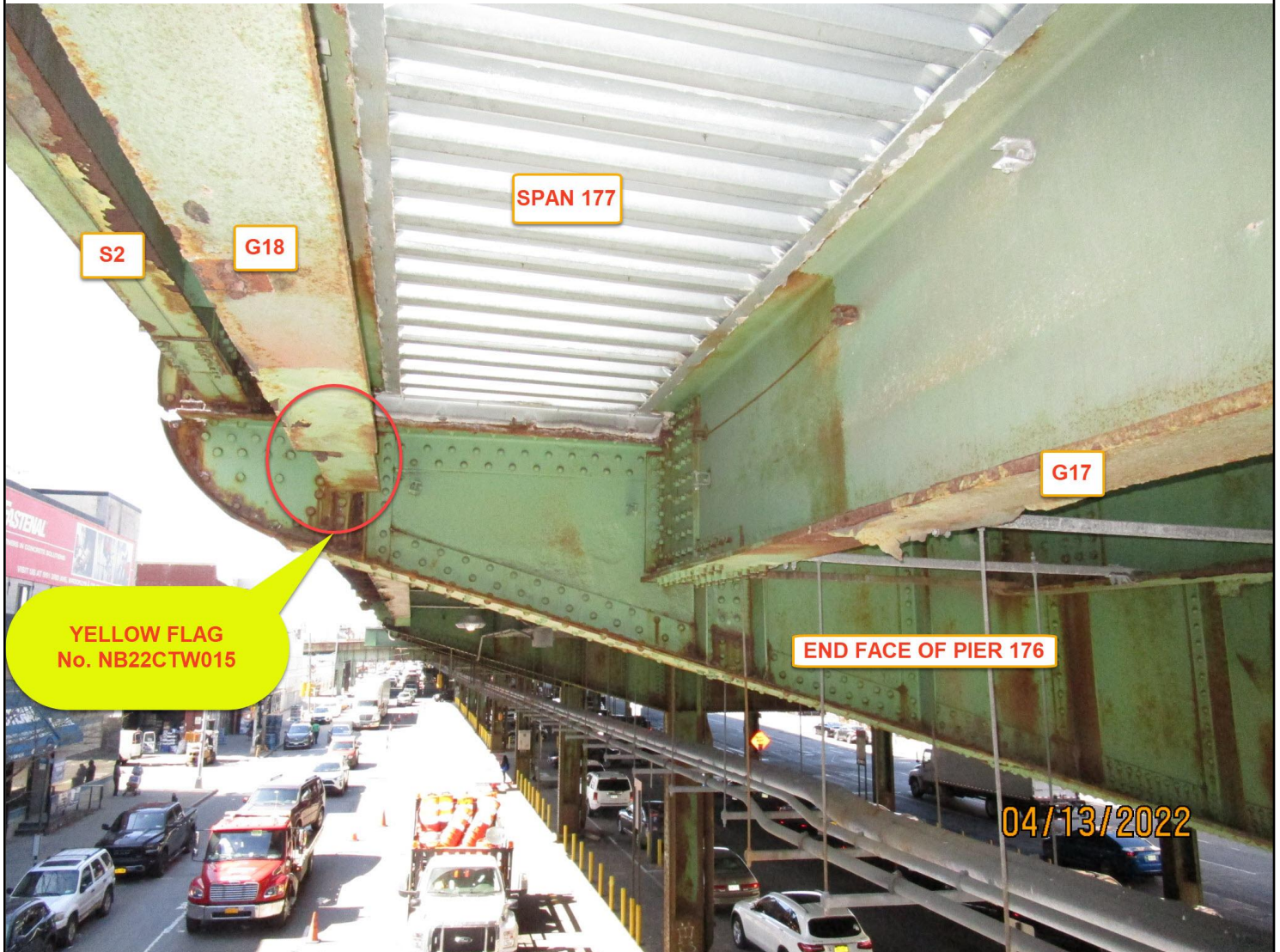
Notes:

1. The top of the right connection angle at Girder G18 exhibits 15% section loss for 12"L x full width at the top of the angle. Also, the left connection angle at Girder G18 exhibits a 5"H x up to 2"W corrosion hole (previously 5"x 1-1/2") at the bottom of the angle with up to 50% section loss at the connection bolt nuts.
2. The end of Girder G18 exhibits 40% section loss for 1'L x 2"H area at the lower web above the bottom flange and 10%-20% section loss for the full height of the web for 2" wide adjacent to the connection angles.
3. The adjacent Girder G17 is in good condition with new steel plates and connection angles installed at the web of the girder.
4. The adjacent stringer S2 has repair plates and is in fair condition.
5. The flagged condition is located above the center lane on 3rd Avenue EB roadway and was accessed using 30ft bucket truck and double lane closure.

Flag Photographs

Photo Number: 1

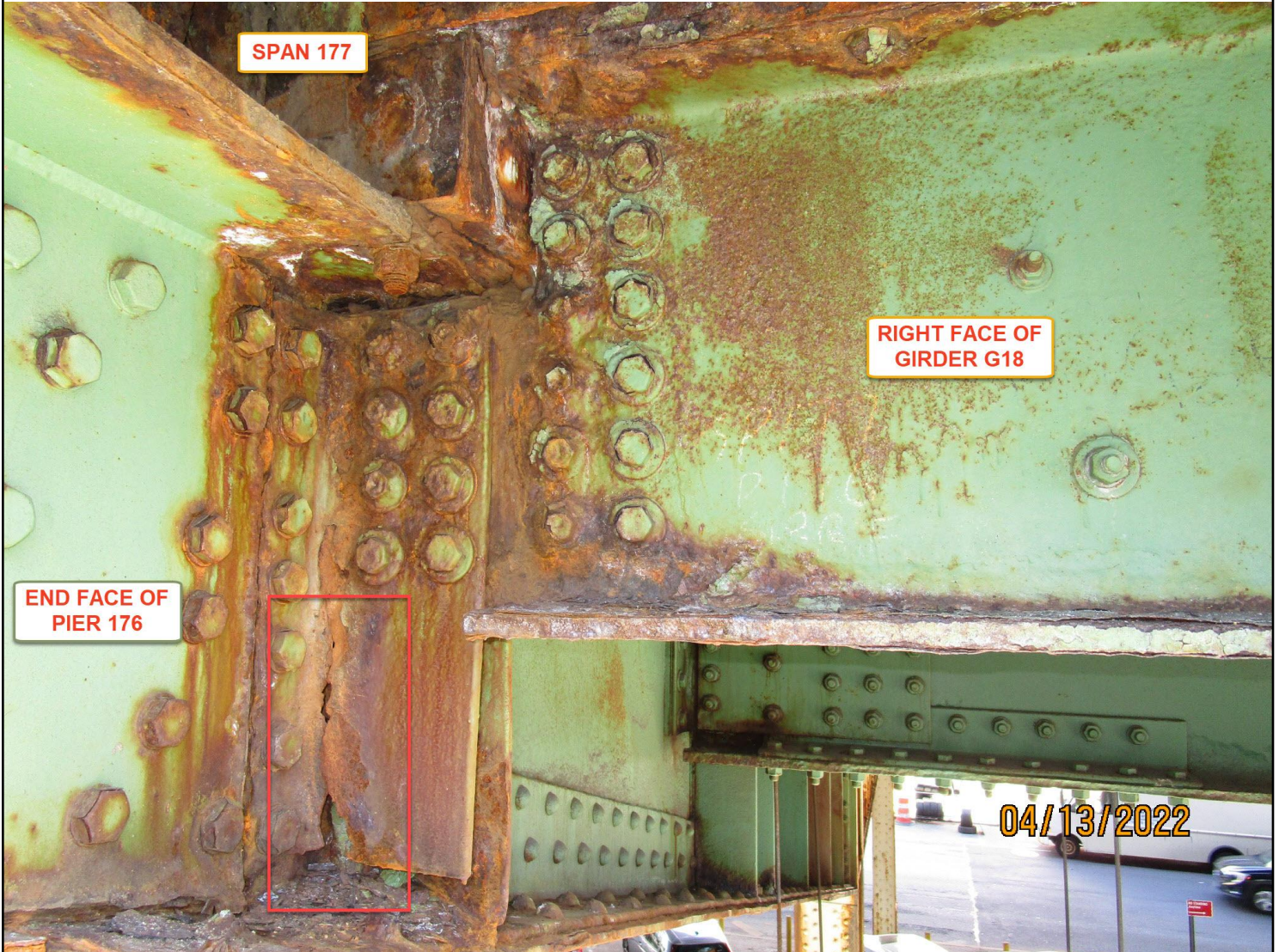
Photo Filename: Photo 1-RA 614_0579.jpg



Attachment Description: General view of the flagged condition at Girder G18 in Span 177 at Pier 176. Looking Begin.

Photo Number: 2

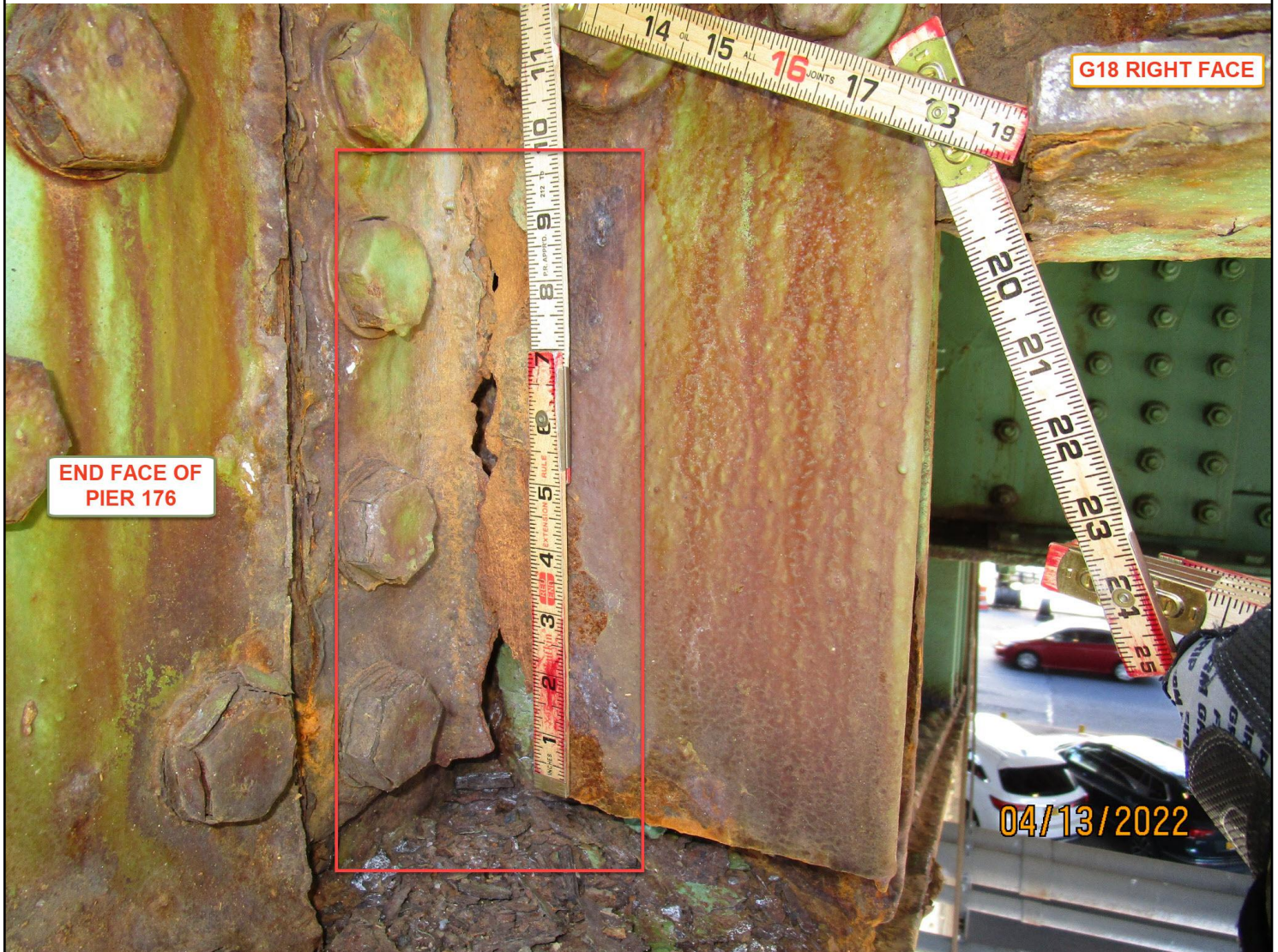
Photo Filename: Photo 2-RA 614_0574.jpg



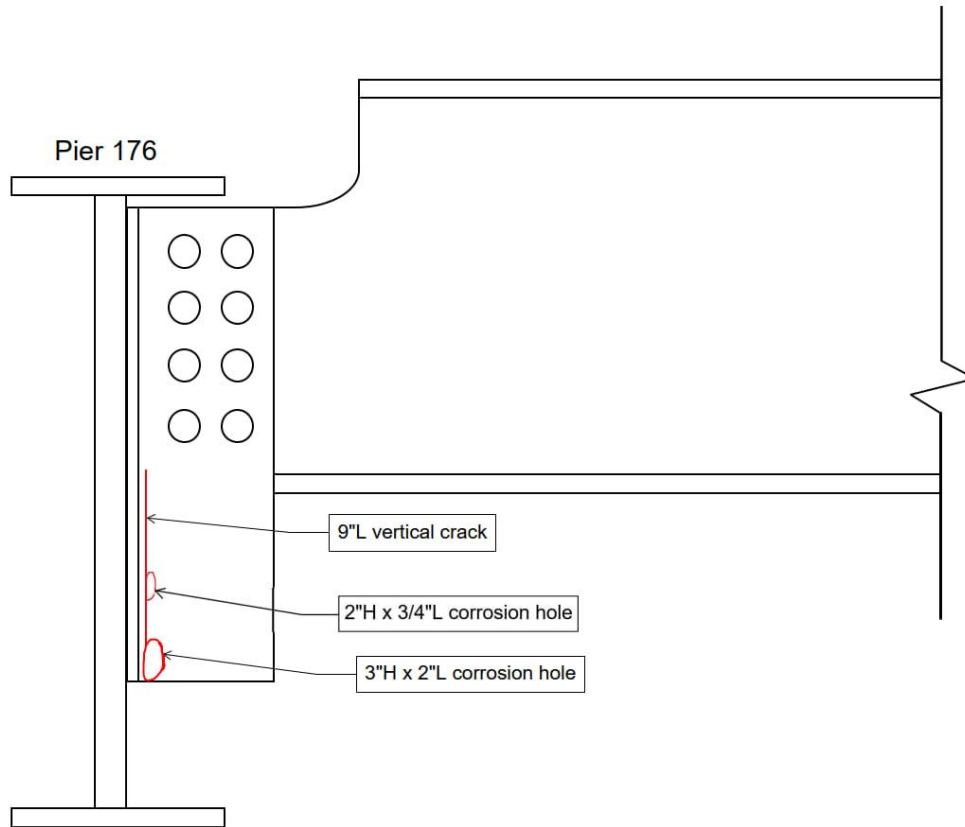
Attachment Description: Close-up general view of the flagged condition at Girder G18 in Span 177 at Pier 176. The boxed area exhibits a corrosion hole vertical crack along the fillet, stemming from the 3"H x 2"L corrosion hole at the bottom of the angle. Looking Left.

Photo Number: 3

Photo Filename: Photo 3-RA 614_0573.jpg



Attachment Description: Closed-up view of the right face of Girder G18 in Span 177 at Pier 176. The connection angle at the girder exhibits vertical crack along the fillet stemming from the 3"H x 2"L corrosion hole at the bottom of the angle. Additionally, there is a 2"H x 3/4"L corrosion hole. Looking Left.

Photo Number: **4**Photo Filename: **22_Girder Detail Sketch.jpg**DATE 04/13/2022TEAM LEADER Rehan Afridi, P.E. ASSISTANT TEAM LEADER Marcos Perez

Right Face of Girder G18
in Span 177 at Pier 176
N.T.S.

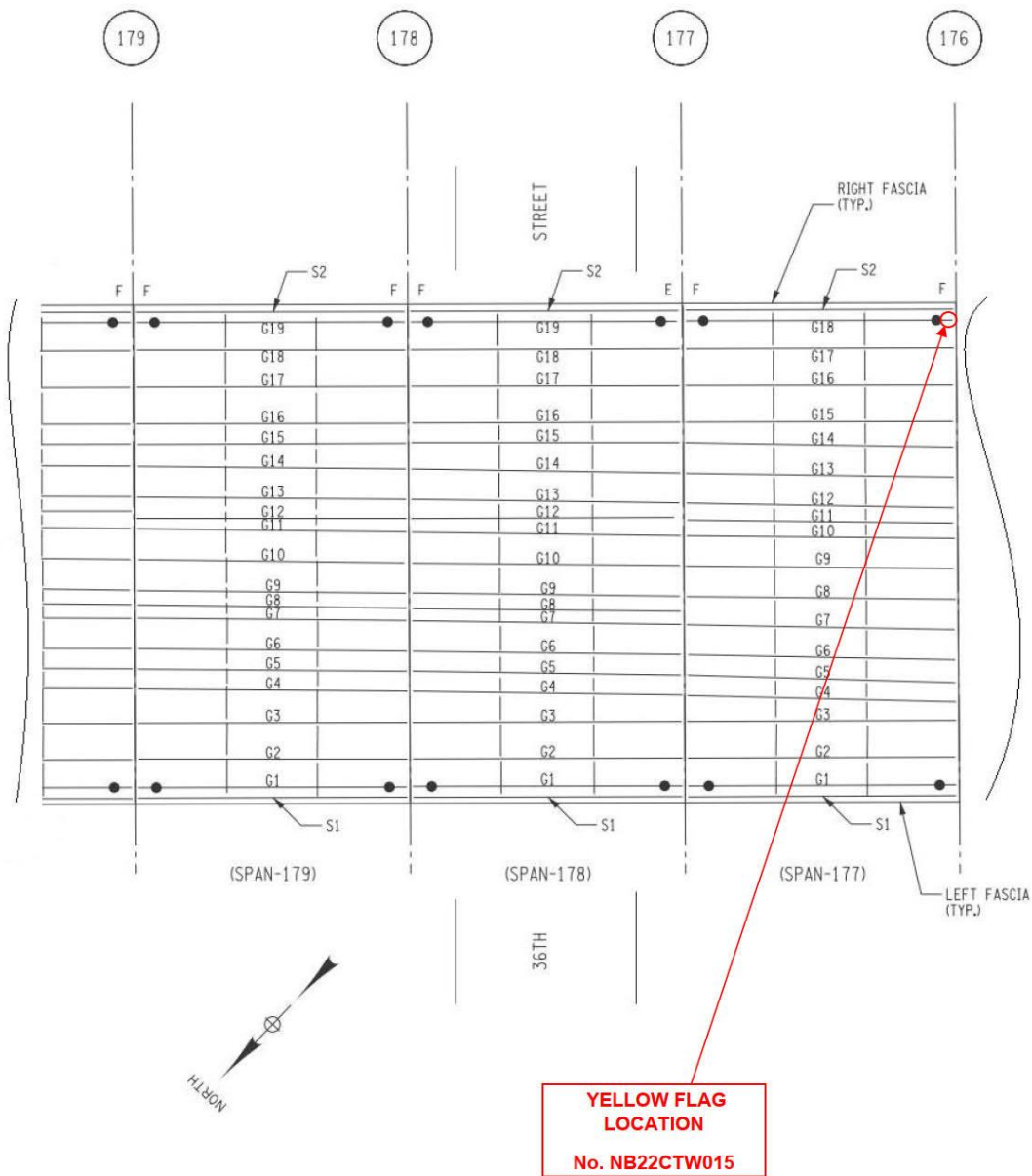
Notes:

- The defects on the girder web and remaining height of the connection angle are not shown for clarity.
- The end of the girder is framed into the pier web with connection angles.

Attachment Description: SN 177 G18 at Pier 176 Sketch

Photo Number: 5

Photo Filename: SN 177 G18 at Pier 176 Framing Plan.jpg



Attachment Description: SN 177 G18 at Pier 176 Framing Plan